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REMARKS

Claims 1-7 are pending in the application. Applicants amend claim 1 for clarification, and amend claims 5-6 to independent form. No new matter has been added.

Applicant acknowledges with appreciation the Examiner's finding that claims 5-6 contain allowable subject matter. Accordingly, Applicant amends claims 5-6 to independent form, and respectfully request that the Examiner allow these claims.

Claims 1, 2, and 7 stand rejected under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent Application Publication No. 2004/0071148 to Ozaki et al.; and claims 3-4 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Ozaki et al. in view of U.S. Patent Application Publication No. 2005/0100008 to Miyata et al. Applicant amends claim 1 in a good faith effort to clarify the invention as distinguished from the cited references, and respectfully traverses the rejections.

Ozaki et al. describe,

> "[a]nd the gateway device also has an address translation unit which controls a correspondence relation between the generated IPv6 address and the network identifier acquired by the device information acquisition unit," on paragraph [0008], lines 17-21.

Such portion of Ozaki et al. does not include, however, any description of a routing table storing information on an output route for a position identifier portion.

Ozaki et al. also describe,

> "[t]he translation table 400 is used to make correspondence of an identifier (local address) of the non-IP device 100 on the non-IP network 200 to the IPv6 address allocated to the non-IP device 100," on paragraph [0043], lines 1-4. (Emphasis added)

The translation table 400 stores only IPv6 address assigned to non-IP device 100, but does not store IPv6 address of IPv6 device 150. Further, such portion of Ozaki et al. does not include any description of a routing table storing information on an output route for a position identifier portion. That is, the translation table is not a routing table that registers information on output routes regarding not only devices but also IP devices.

Ozaki et al. describe,

> "[i]t is therefore an object of the present invention to provide a gateway device which can assign a unique IP address even to a device," on paragraph [0005], lines 1-8.

Such portion of Ozaki et al. does not include any description on how to generate the unique IP address.

Ozaki et al. describe,

> "[t]he gateway generates an IPv6 address on the basis of the interface ID 702 of the registration data 700 received in the step 501 or the network ID acquires in the step 503 or the network ID previously acquired and held in main memory 112," on paragraph [0046], lines 12-16.

Such portion of Ozaki et al. does not include any description of the gateway generating the IPv6 address by using all of position identifier portions registered in a routing table and generating a position identifier portion different from all of the position identifier portions registered in said routing table for a port.

And the cited portions of Ozaki et al. do not include any description of registering network ID in the translation table 400.

Thus, Ozaki et al., as cited and relied upon by the Examiner, fail to disclose,

> "[a] router for automatically generating an IP address comprising a position identifier portion and an interface identifier portion, said router comprising:
>
> a routing table for storing each position identifier portion and information on an output route for the position identifier portion;
>
> a determining unit for determining for each of a plurality of ports whether a position identifier portion is assigned to a network to which the port is connected;
>
> a position identifier portion generating unit for using all of said position identifier portions registered in said routing table and generating a position identifier portion different from all of the position identifier portions registered in said routing table for a port when said determining unit determines that the position identifier portion is not assigned to the port;
>
> a routing unit for receiving routing information including a position identifier portion according to a dynamic routing protocol and registering the routing information in said routing table, and registering routing information including the position identifier portion generated by said position identifier portion generating unit in said routing table and notifying another router of the routing information; and
>
> a position identifier portion advertising unit for advertising the generated position identifier portion from the port on the position identifier portion," as recited in claim 1. (Emphasis added)

Accordingly, Applicants respectfully submit that claim 1, together with claims 2 and 7 dependent therefrom, is patentable over Ozaki et al. for at least the foregoing reasons.

The Examiner relied upon Miyata et al. as a combining reference to specifically address the additional features recited in dependent claims 3 and 4. And even assuming, arguendo, that it would have been obvious to one skilled in the art at the time the claimed invention was made to combine this additional reference, such a combination would still have failed to cure the above-described deficiencies of Ozaki et al.

Miyata et al. describe,

> "[i]f a random address creation method is selected, then the step 503 of sending Router Solicitation is performed to obtain an IPv6 address prefix 551 from a router in the same subnet. When the router sends Router Advertisement in response to Router Solicitation, a step 505 of receiving Router Advertisement is performed to obtain the address prefix 551," on paragraph [0100], lines 5-11.

That is, the IPv6 address prefix 551 is obtained from a router for generating IPv6 address prefix 551.

Miyata et al. describe,

> "[s]econd, a step of creation an interface ID 506 is performed at random interface ID creation part 528 to create an IPv6 interface ID 552," on paragraph [0101], lines 1-3.

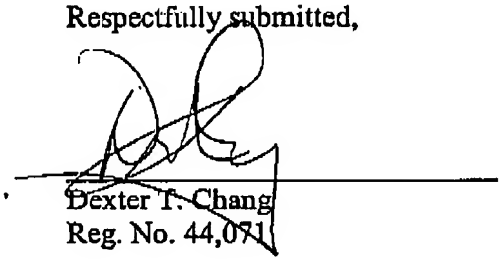
Miyata et al. fail to disclose, however, using all of interface prefixes or interface IDs registered in a routing table and generating an interface prefixes or an interface ID different from all interface prefixes or interface IDs registered in said routing table for a port.

Accordingly, Applicant respectfully submits that claims 3-4 are patentable over Ozaki et al. and Miyata et al., separately and in combination, for at least the foregoing reasons.

In view of the remarks set forth above, this application is in condition for allowance which action is respectfully requested. However, if for any reason the Examiner should consider this application not to be in condition for allowance, the Examiner is respectfully requested to telephone the undersigned attorney at the number listed below prior to issuing a further Action.

Any fee due with this paper may be charged to Deposit Account No. 50-1290.

Respectfully submitted,



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